In the Claims:

Please replace claims 1, 8, 21, 34, 41, and 48, all as shown below.

1. (Currently amended): A template pattern for a reference surface of a disk connected with a hard disk drive having at least one head connected with a rotary actuator, comprising:

at least one servo wedge having a first end at an inner diameter of the disk and a second end at an outer diameter of the disk, ~~each~~ the at least one servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end;

a plurality of zig-bursts, each zig-burst forming a variable angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a negative chevron angle relative to the plurality of pulses; and

wherein the variable angle at the second end is a chevron angle and the variable angle at the first end is less than the chevron angle.

2. (Original): The template pattern of claim 1, wherein the plurality of pulses trace an arc from the first end to the second end such that the arc follows a motion of the head.

3. (Original): The template pattern of claim 1, wherein each pulse can be continuous or discontinuous along the stroke.

4. (Original): The template pattern of claim 1, wherein the variable angle increases continuously between the first end and the second end.

5. (Original): The template pattern of claim 1, wherein the variable angle abruptly changes from less than the chevron angle to the chevron angle.

6. (Original): The template pattern of claim 1, wherein the chevron angle is equivalent to head skew at the first end.

7. (Original): The template pattern of claim 6, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

8. (Currently amended): A template pattern for a reference surface of a disk connected with a hard disk drive having at least one head connected with a rotary actuator, comprising:

at least one servo wedge having a first end at an inner diameter of the disk and a second end at an outer diameter of the disk, ~~each~~ the at least one servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end;

a plurality of zig-bursts, each zig-burst forming a variable angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a negative chevron angle relative to the plurality of pulses; and

wherein the variable angle at the first end is zero and the variable angle at the second end is a chevron angle.

9. (Original): The template pattern of claim 8, wherein the plurality of pulses trace an arc from the first end to the second end such that the arc follows a motion of the head.

10. (Original): The template pattern of claim 8, wherein each pulse can be continuous or discontinuous along the stroke.

11. (Original): The template pattern of claim 8, wherein the variable angle increases continuously between the first end and the second end.

12. (Original): The template pattern of claim 8, wherein the variable angle abruptly changes from zero to the chevron angle.

13. (Original): The template pattern of claim 8, wherein the chevron angle is equivalent to head skew at the first end.

14. (Original): The template pattern of claim 13, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

15. (Original): A template pattern, comprising:

at least one servo wedge having a first end and a second end, each servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end, each pulse being continuous or discontinuous;

a plurality of zig-bursts, each zig-burst forming a varying angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a negative chevron angle relative to the plurality of pulses;

wherein the varying angle at the first end is zero and the varying angle at the second end is a chevron angle.

16. (Original): The template pattern of claim 15, wherein the plurality of pulses trace an arc from the first end to the second end.

17. (Original): The template pattern of claim 15, wherein the variable angle increases continuously between the first end and the second end.

18. (Original): The template pattern of claim 15, wherein the variable angle abruptly changes from zero to the chevron angle.

19. (Original): The template pattern of claim 15, wherein the chevron angle is equivalent to head skew at the first end.

20. (Original): The template pattern of claim 19, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

21. (Currently amended): A template pattern for a reference surface of a disk connected with a hard disk drive having at least one head connected with a rotary actuator, comprising:

at least one servo wedge having a first end at an inner diameter of the disk and a second end at an outer diameter of the disk, ~~each~~ the at least one servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end;

a plurality of zig-bursts, each zig-burst forming a negative chevron angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a variable angle relative to the plurality of pulses;

wherein the variable angle at the first end is zero and the variable angle at the second end is a chevron angle.

22. (Original): The template pattern of claim 21, wherein the plurality of pulses trace an arc from the first end to the second end such that the arc follows a motion of the head.

23. (Original): The template pattern of claim 21, wherein each pulse can be continuous or discontinuous along the stroke.

24. (Original): The template pattern of claim 21, wherein the variable angle increases continuously between the first end and the second end.

25. (Original): The template pattern of claim 21, wherein the variable angle abruptly changes from zero to the chevron angle.

26. (Original): The template pattern of claim 21, wherein the chevron angle is equivalent to head skew at the first end.

27. (Original): The template pattern of claim 26, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

28. (Original): A template pattern, comprising:

at least one servo wedge having a first end and a second end, each servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end, each pulse being continuous or discontinuous;

a plurality of zig-bursts, each zig-burst forming a negative chevron angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a varying angle relative to the plurality of pulses;

wherein the varying angle at the first end is zero and the varying angle at the second end is a chevron angle.

29. (Original): The template pattern of claim 28, wherein the plurality of pulses trace an arc from the first end to the second end.

30. (Original): The template pattern of claim 28, wherein the variable angle increases continuously between the first end and the second end.

31. (Original): The template pattern of claim 28, wherein the variable angle abruptly changes from zero to the chevron angle.

32. (Original): The template pattern of claim 29, wherein the chevron angle is equivalent to head skew at the first end.

33. (Original): The template pattern of claim 32, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

34. (Currently Amended): A template pattern for a reference surface of a disk connected with a hard disk drive having at least one head connected with a rotary actuator, comprising:

at least one servo wedge having a first end and a second ~~endk~~ end, each servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end;

a plurality of zig-bursts, each zig-burst forming a variable angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a negative chevron angle relative to the plurality of pulses; and

wherein the variable angle at the second end is a chevron angle and the variable angle at the first end is less than the chevron angle.

35. (Original): The template pattern of claim 34, wherein the plurality of pulses trace an arc from the first end to the second end such that the arc follows a motion of the head.

36. (Original): The template pattern of claim 34, wherein each pulse can be continuous or discontinuous along the stroke.

37. (Original): The template pattern of claim 34, wherein the variable angle increases continuously between the first end and the second end.

38. (Original): The template pattern of claim 34, wherein the variable angle abruptly changes from less than the chevron angle to the chevron angle.

39. (Original): The template pattern of claim 34, wherein the chevron angle is equivalent to head skew at the first end.

40. (Original): The template pattern of claim 39, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

41. (Currently Amended): A template pattern for a reference surface of a disk connected with a hard disk drive having at least one head connected with a rotary actuator, comprising:

at least one servo wedge having a first end at an inner diameter of the disk and a second end at an outer diameter of the disk, ~~each~~ the at least one servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end;

a plurality of zig-bursts, each zig-burst forming a variable angle relative to the plurality of pulses; and

a plurality of zag-bursts, each zag-burst forming a negative chevron angle relative to the plurality of pulses; and

wherein the variable angle at the first end is zero and the variable angle at the second end is a chevron angle.

42. (Original): The template pattern of claim 41, wherein the plurality of pulses trace an arc from the first end to the second end such that the arc follows a motion of the head.

43. (Original): The template pattern of claim 41, wherein each pulse can be continuous or discontinuous along the stroke.

44. (Original): The template pattern of claim 41, wherein the variable angle increases continuously between the first end and the second end.

45. (Original): The template pattern of claim 41, wherein the variable angle abruptly changes from zero to the chevron angle.

46. (Original): The template pattern of claim 41, wherein the chevron angle is equivalent to head skew at the first end.

47. (Original): The template pattern of claim 46, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.

48. (Currently amended): A template pattern for a reference surface of a disk connected with a hard disk drive having at least one head connected with a rotary actuator, comprising:

at least one servo wedge having a first end at an inner diameter of the disk and a second end at an outer diameter of the disk, ~~each~~ the at least one servo wedge including:

a plurality of pulses extending along a stroke from the first end to the second end;

a plurality of zag-bursts, each zag-burst forming a variable angle relative to the plurality of pulses; and

a plurality of zig-bursts, each zig-burst forming a negative chevron angle relative to the plurality of pulses; and

wherein the variable angle at the first end is zero and the variable angle at the second end is a chevron angle.

49. (Original): The template pattern of claim 48, wherein the plurality of pulses trace an arc from the first end to the second end such that the arc follows a motion of the head.

50. (Original): The template pattern of claim 48, wherein each pulse can be continuous or discontinuous along the stroke.

51. (Original): The template pattern of claim 48, wherein the variable angle increases continuously between the first end and the second end.

52. (Original): The template pattern of claim 48, wherein the variable angle abruptly changes from zero to the chevron angle.

53. (Original): The template pattern of claim 48, wherein the chevron angle is equivalent to head skew at the first end.

54. (Original): The template pattern of claim 53, wherein the variable angle is constant relative to a radial line extending from the first end to the second end.